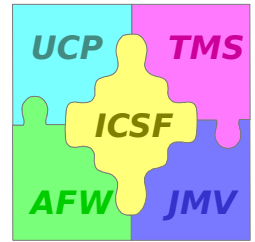# *Introduction to the Integrated C4I Software Framework (ICSF)*

Rob Peabody

Peter Kunkel

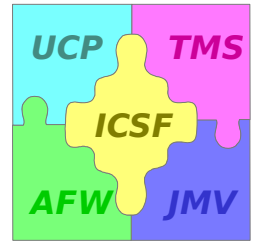*Anthony Alston*

Steve LoCicero

ICSF Agenda

1045-1100 Intro to ICSF   Rob Peabody

1100-1115 ICSF Software Dev. Guide   Peter Kunkel

1115-1130 TMS   Peter Kunkel

1130-1145 UCP   Anthony Alston

1145-1300 Lunch

1300-1330 JMV   Peter Kunkel

1330-1430 AFW/SymPlot   Rob Peabody

1430-1445 Break

1445-1545 Garlic Fries (FGM and INRI)   Steve LoCicero

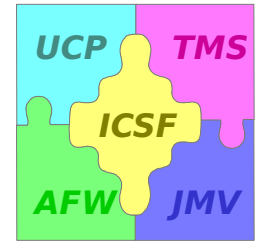1545-1615 Q&A/Wrap-up
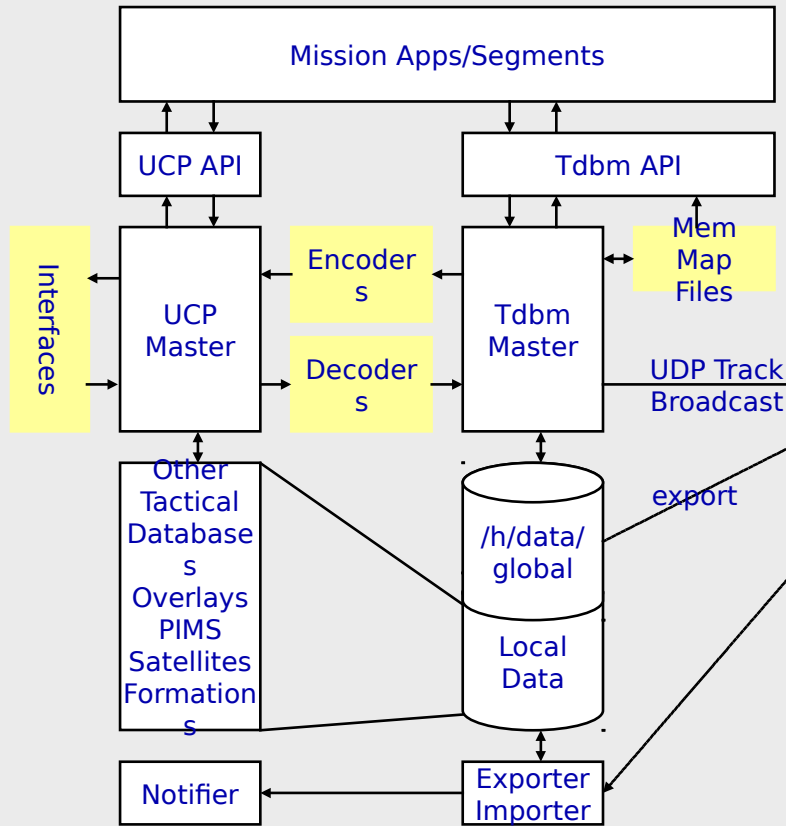
        (CSA, CA, INRI, FGM)

ICSF Overview

- *ICSF provides developer services with four primary components*
  - *Server Components*
    - *Universal Communications Process (UCP)*
    - *Tactical Management System (TMS)*
  - *Visualization Components*
    - *Application Framework (AFW)*
    - *Joint Mapping Toolkit – Visualization (JMV)*
- *C4I Visualization is supported with two additional components*
  - *TMS – Visualization (TMSV)*
  - *AFW Symplot*
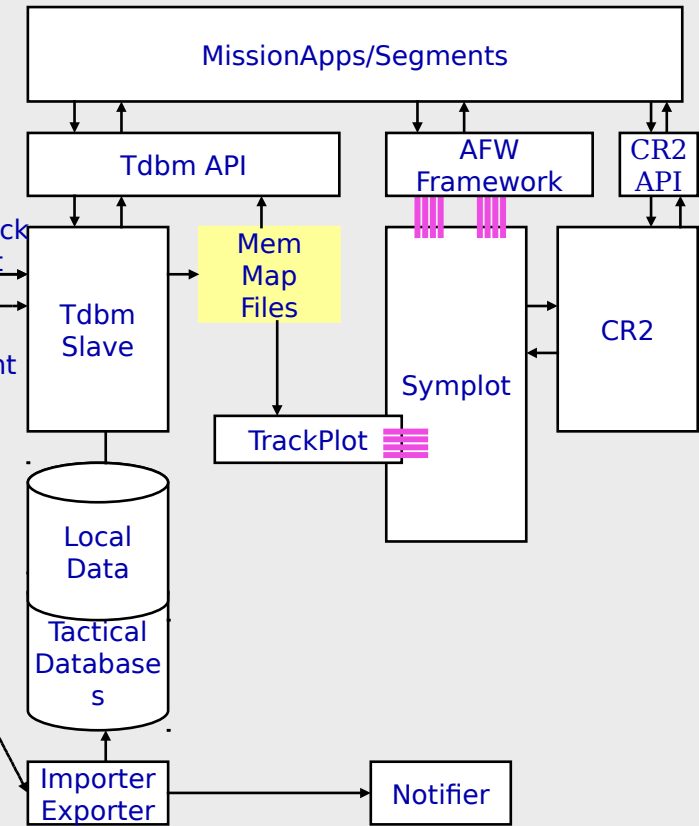- *C4I Visualization is supported across Unix and NT in Java*
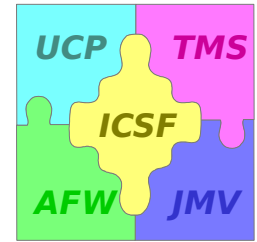
ICSF 4.X Architecture

Master/Server (Unix)

Mission Apps/Segments

UCP API

Tdbm API

Interfaces

UCP Master

Encoders

Decoders

Tdbm Master

Mem Map Files

Other Tactical Databases Overlays PIMS Satellites Formations

/h/data/global

Local Data

export

UDP Track Broadcast

Notifier

Exporter Importer

LAN

UDP Track B'cast

NFS mount

Client/Workstation (Unix)

MissionApps/Segments

Tdbm API

AFW Framework

CR2 API

Tdbm Slave

Mem Map Files

Symplot

CR2

TrackPlot

Local Data

Tactical Databases

Importer Exporter

Notifier

AFW Symplot Architecture

The Symplot Framework allows multiple Map Accessor to collaborate on object management via AFW plug-in

TMSV 2525 Producer

MIDB Producer

Main System Infobus

AOI Filter → **Cat/Threat Filter** → **Filter n**   **Chart Inset Filtered Set**

Filter Settings

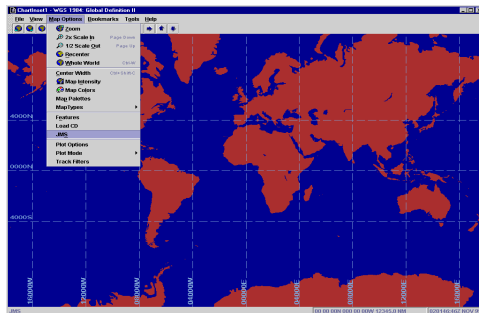**Chart Inset Infobus**

MilStd2525A Plotter (Infobus Consumer)

Plot Control – Pri 0

Plot Control – Pri 2

Plot Control – Pri 15

Chart Settings
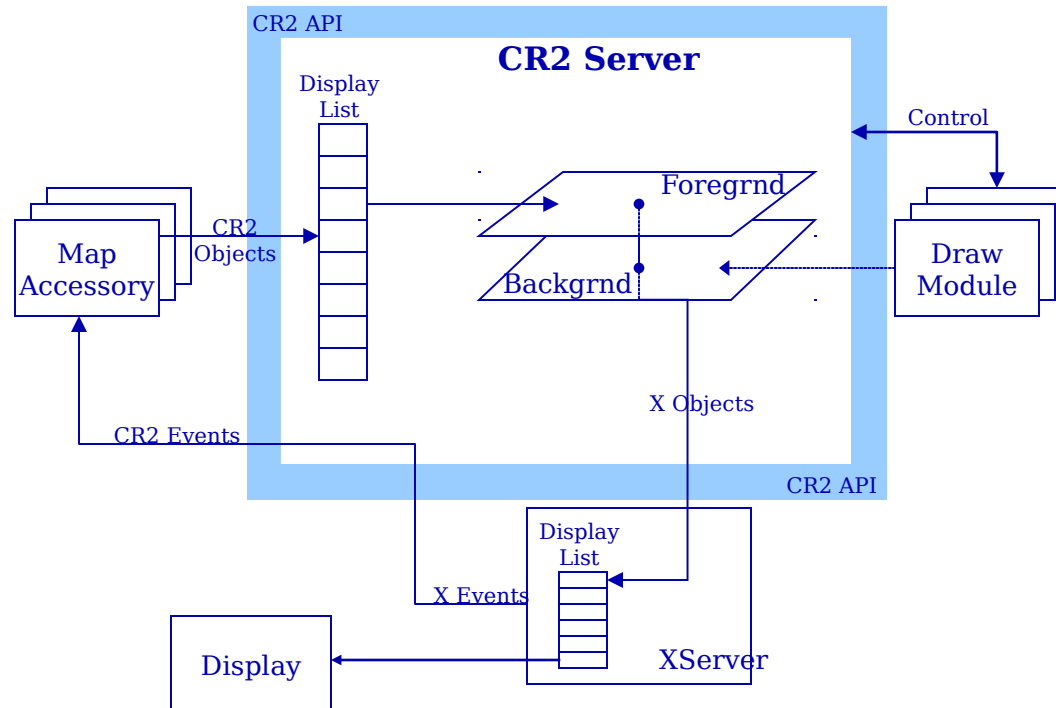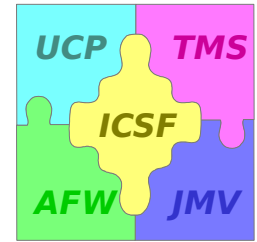
Controlled Set

LOGICON
INRI

Introduction to ICSF
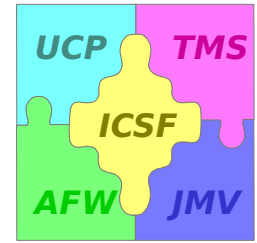24 May 2000   -   Slide 5

JMV Architecture

The CR2 Server allows multiple Map Accessories to share a common geographic display.
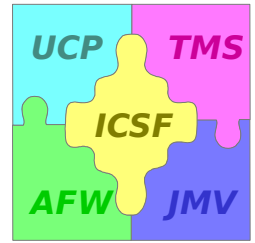
ICSF 4.3 Key Planning Dates

- *06/09/00 ICSF 4.3 Sync Drop 1 Delivery*
- *08/04/00 ICSF 4.3 Sync Drop 2 Delivery*
- *09/22/00 ICSF 4.3 Final Delivery*
- *10/06/00   DII COE 4.3 Release from DISA*

4.3 Target Environments

- ❏ *OS/Compilers*
  - ▪ *Solaris 7 & Solaris 8; Sun Workshop 5.0*
  - ▪ *NT 4.0 SP 6a; Visual C++ 6.0*
  - ▪ *HP 11.0 (1999); HP aC++ Compiler*
  - ▪ *JDK 1.2*
- ❏ *Planned for Sync 1*
  - ▪ *HP 11 Release*
  - ▪ *Visual C++ 6.0 for NT*
  - ▪ *Updated Java 1.2 Classes*